

Figure 1

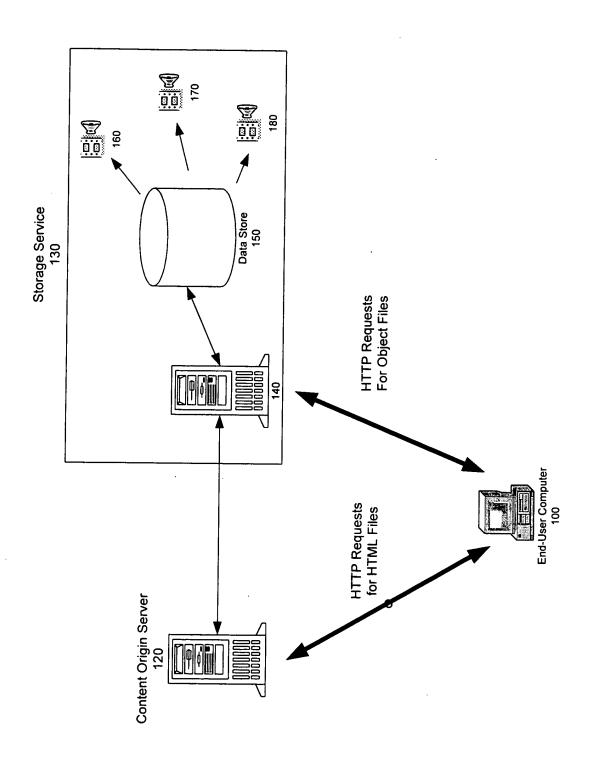
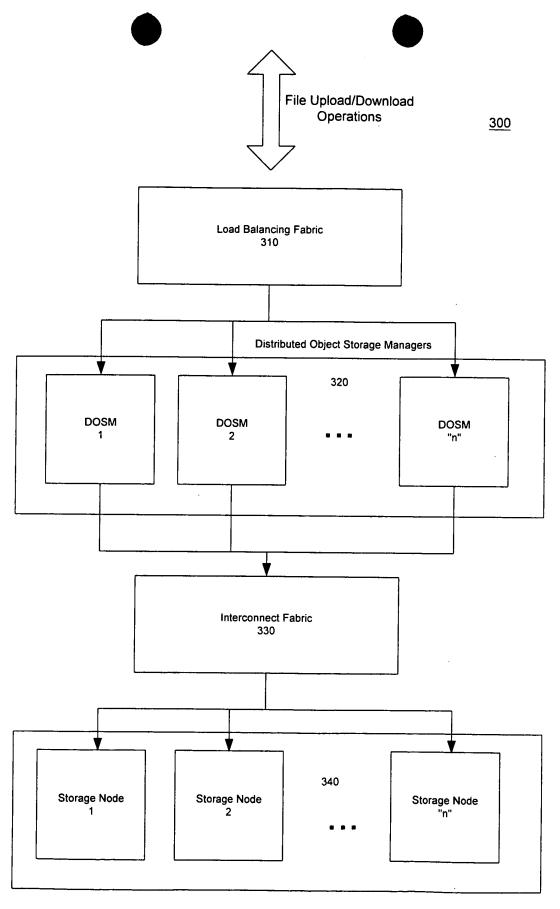
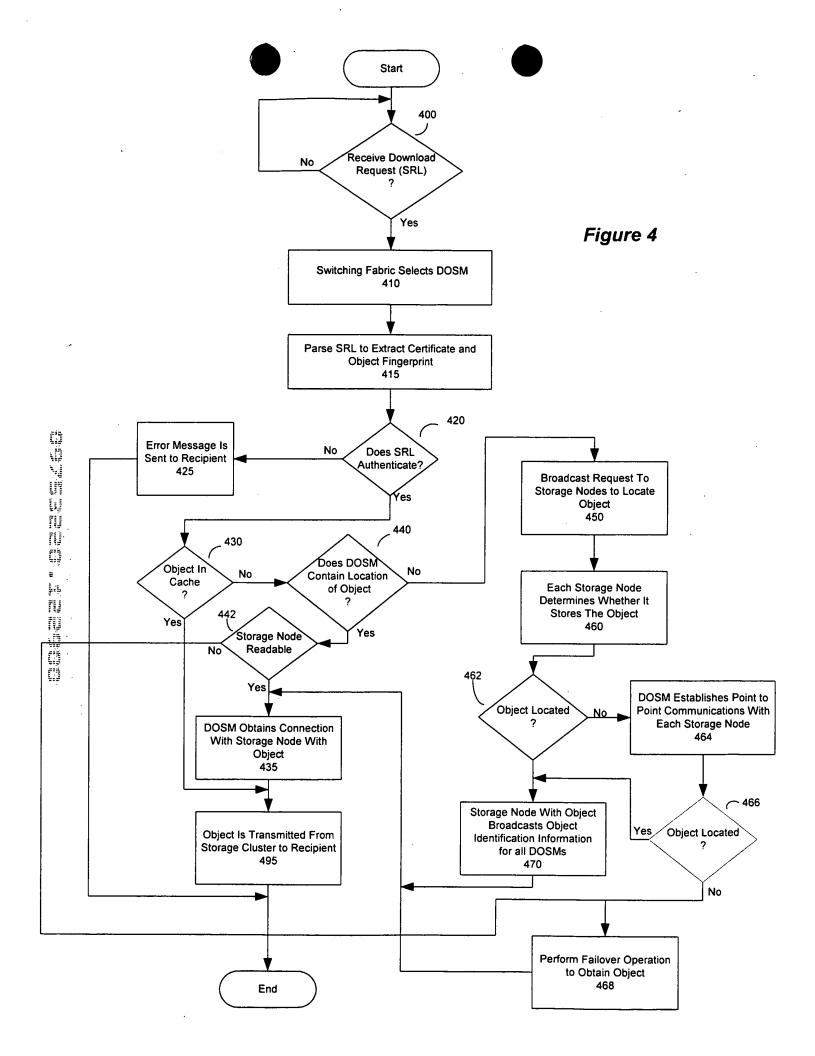


Figure 2



Intelligent Storage Nodes

Figure 3



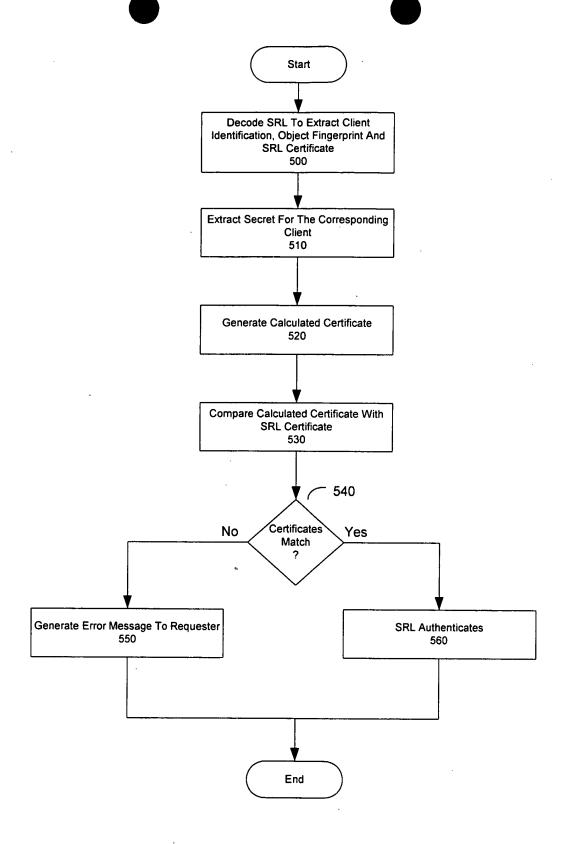
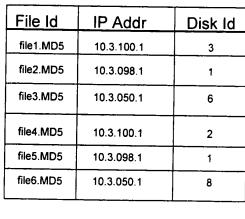


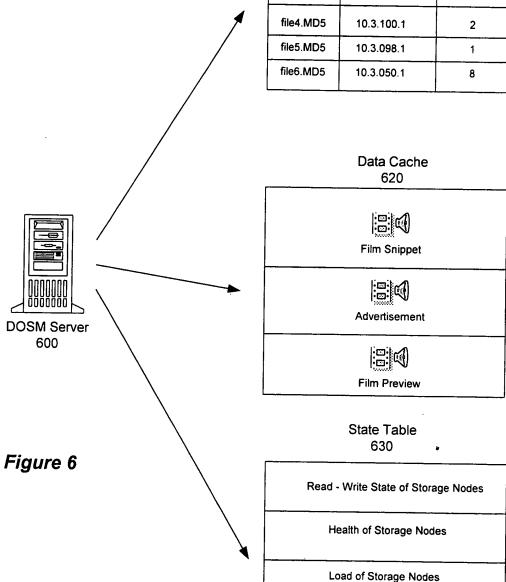
Figure 5

DOSM File Look-up Table 610



Storage CapacityNumber of I/O Operations

Per Second



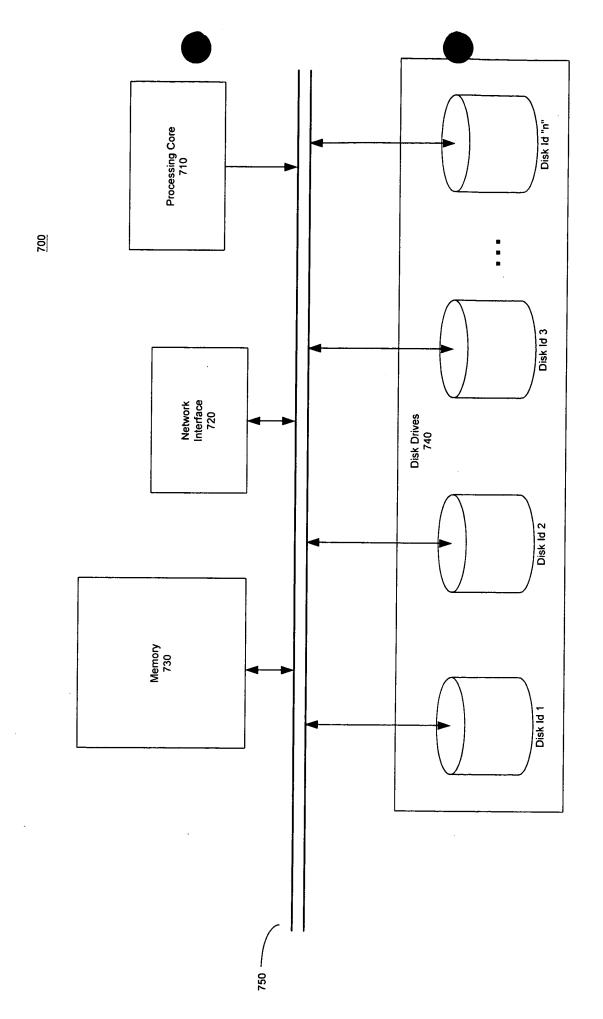


Figure 7

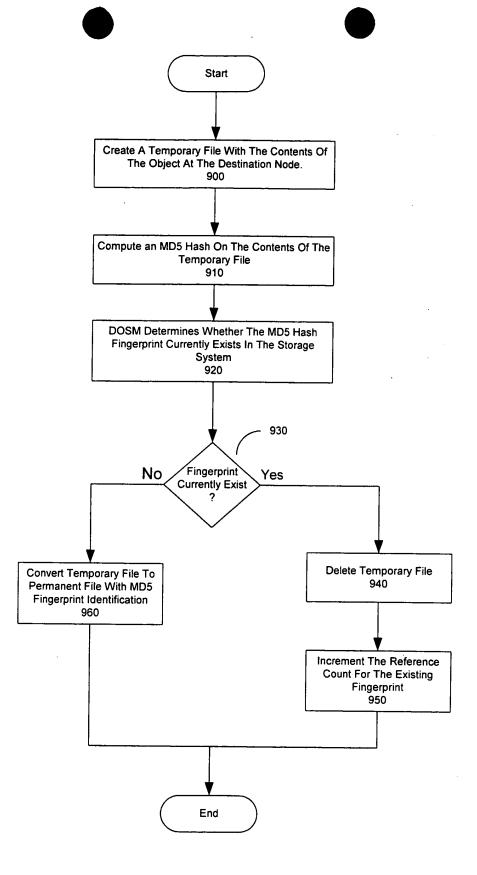


Figure 9

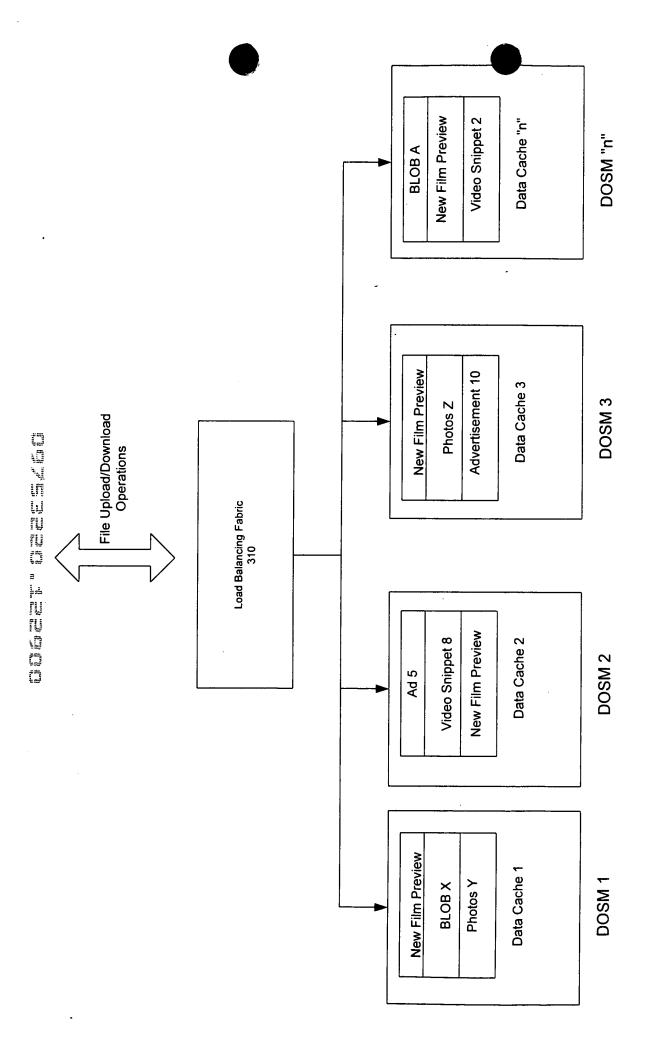


Figure 10

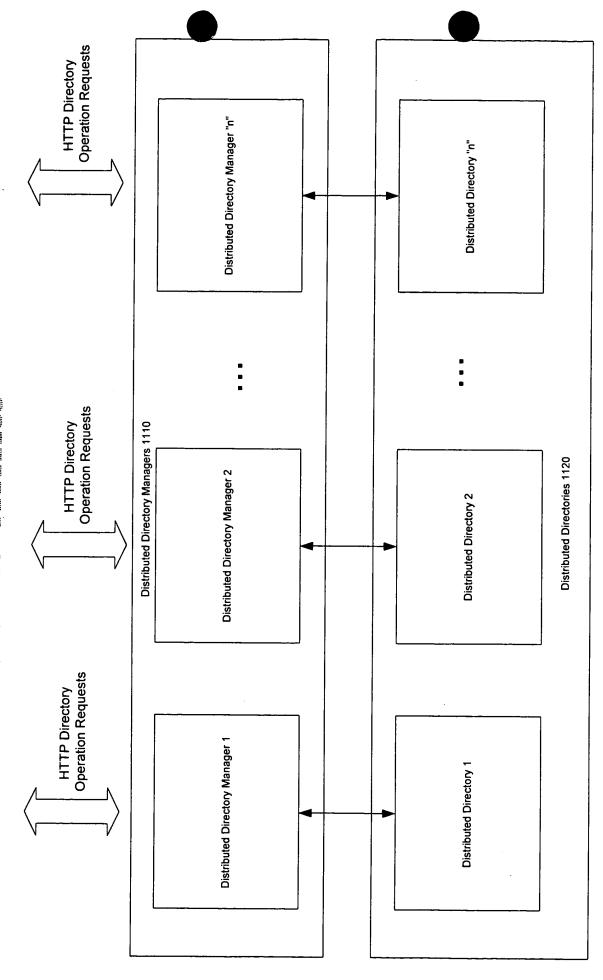


Figure 11

1100

Customer Table

C	Customer Name	Customer Reserved Fields]	
	Customer A	[Customer stores data]		1200
	Customer B	[Customer stores data]		
,	Customer C	[Customer stores data]		
(Customer D	[Customer stores data]	Ī	

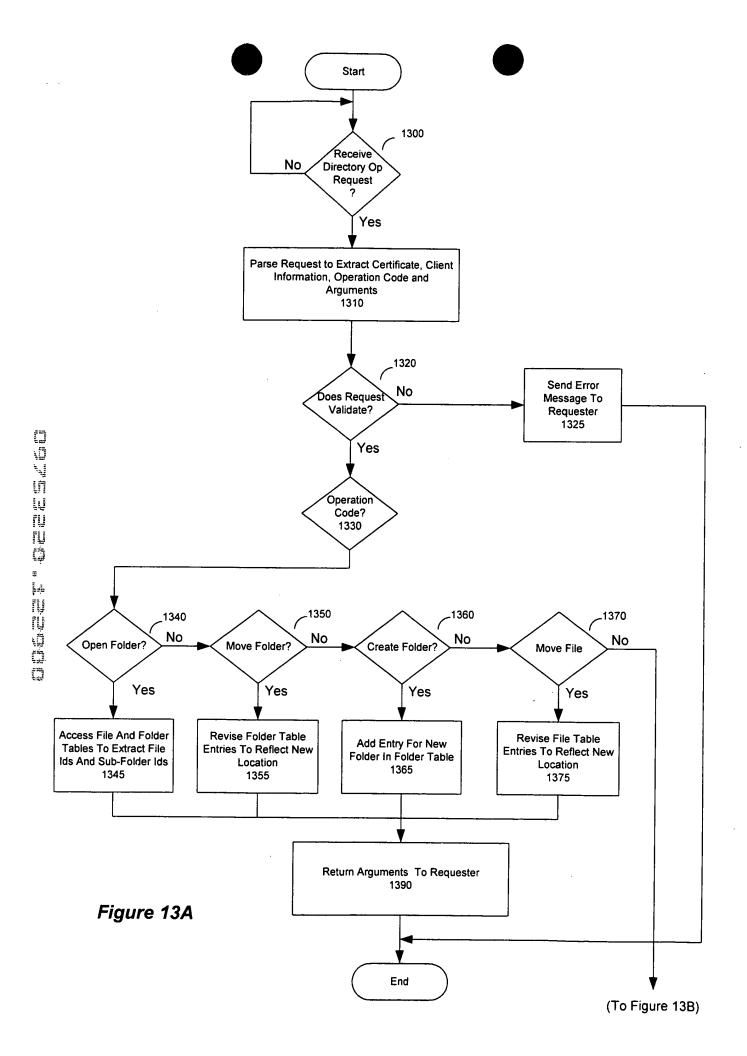
Folder Table

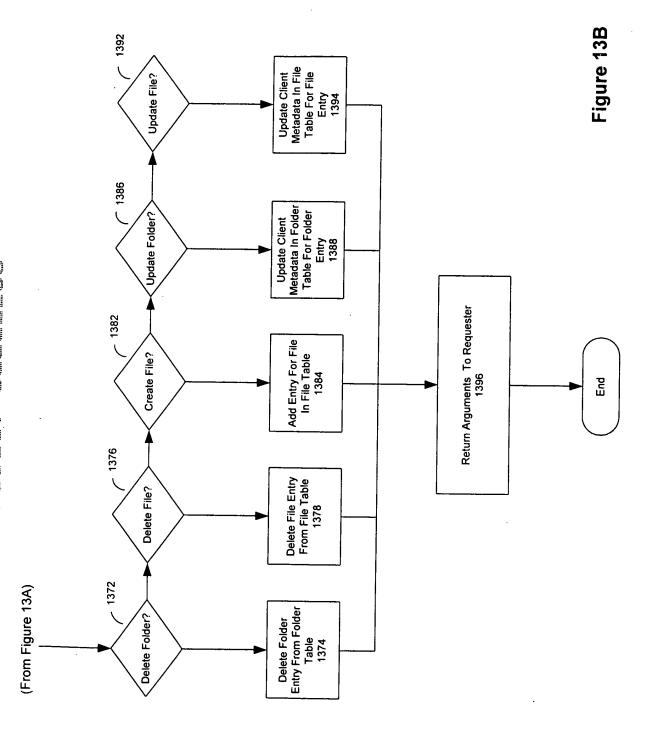
Customer Id	Folder Id	Folder Parent Id	Metadata	
3	2	-	[Reserved]	1210
3	100	2	[Reserved]	/
3	251	. 2	[Reserved]	l I
3	166	251	[Reserved]	

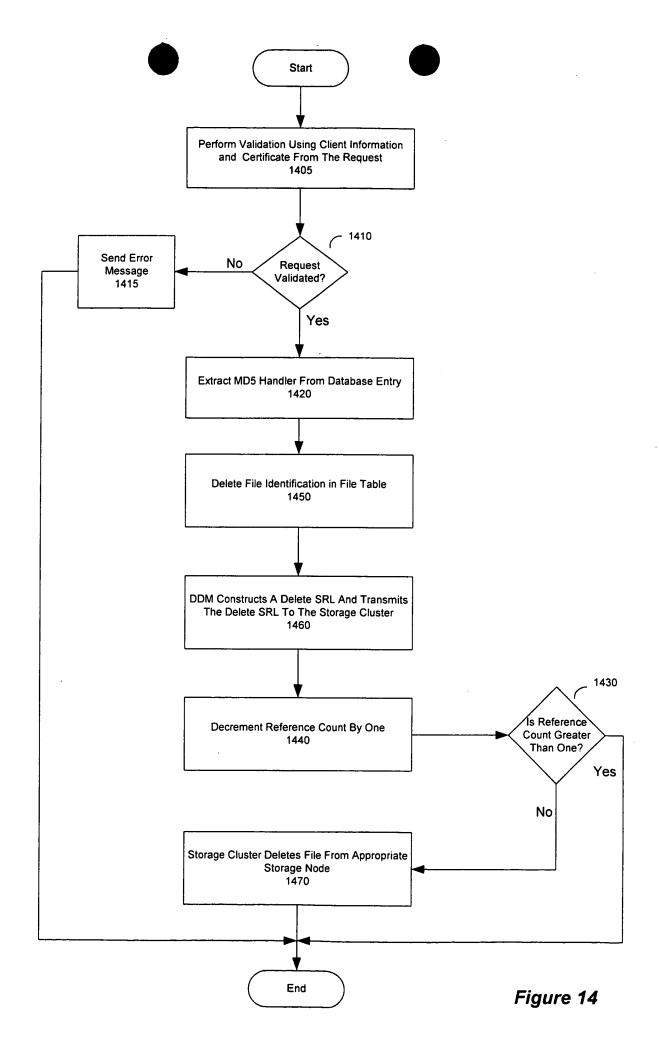
File Table

Customer Id	File Handle	Folder Id	Folder Parent Id	Metadata]
3	52.MD5	100	2	[Reserved]	1220
3	55.MD5	100	2	[Reserved]	Y
3	99.MD5	166	251	[Reserved]	
3	67.MD5	166	251	[Reserved]	

Figure 12







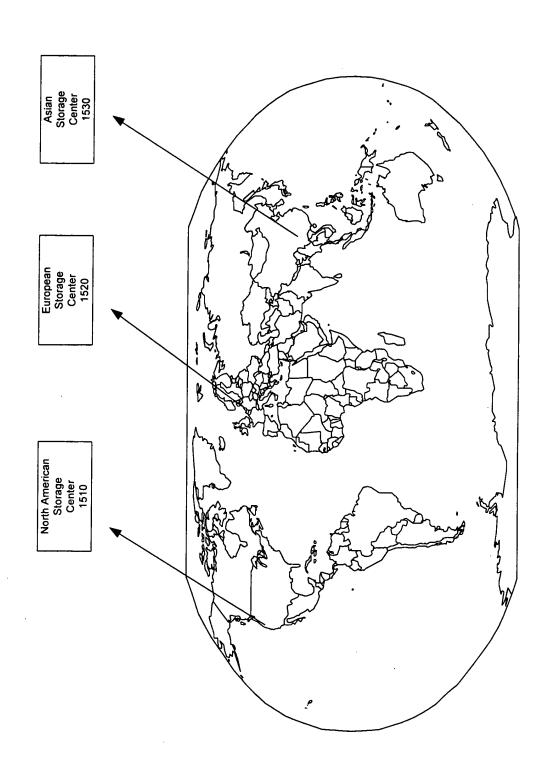


Figure 15

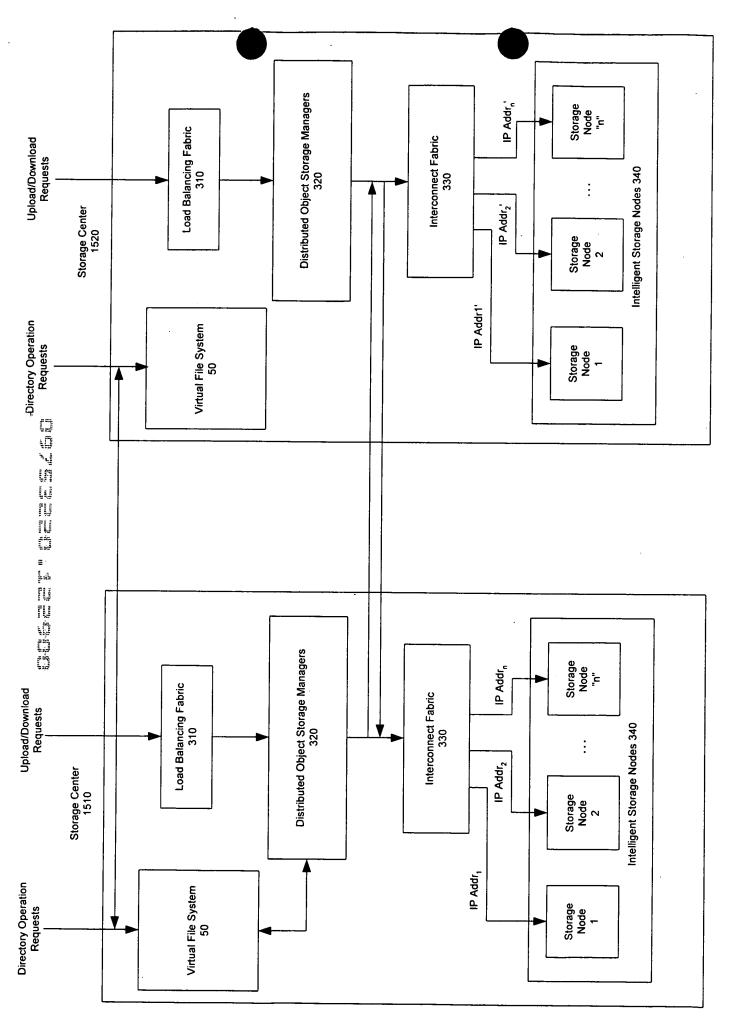
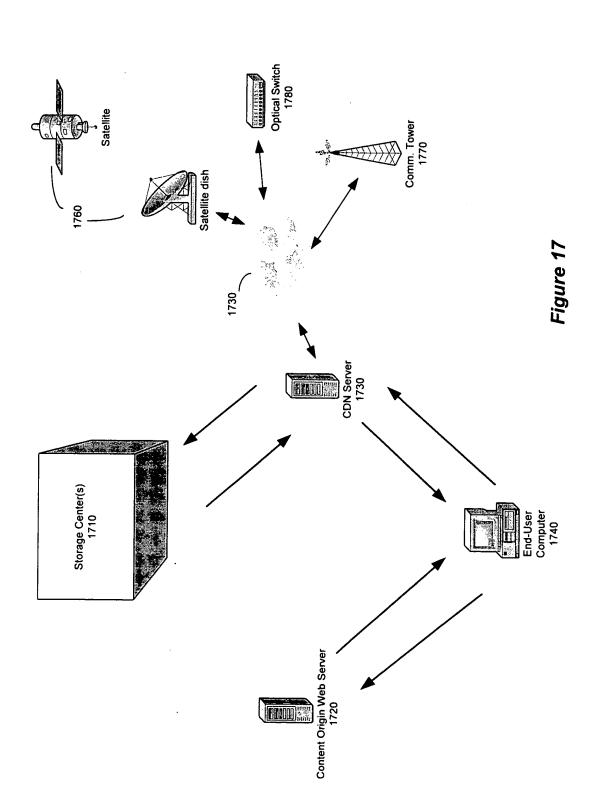


Figure 16



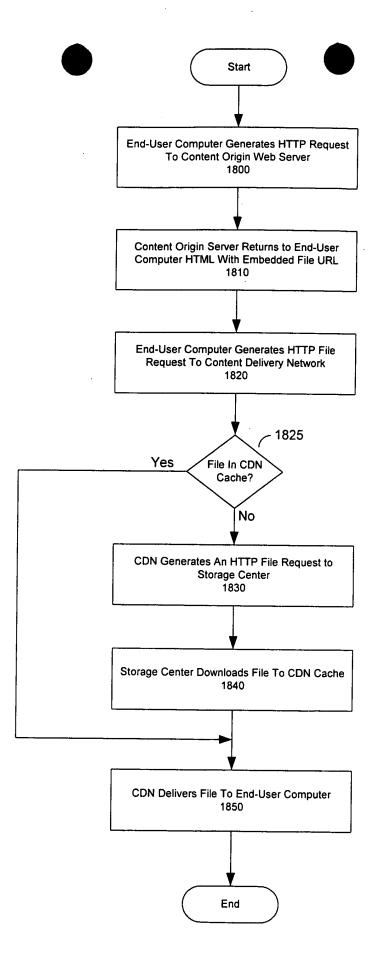


Figure 18

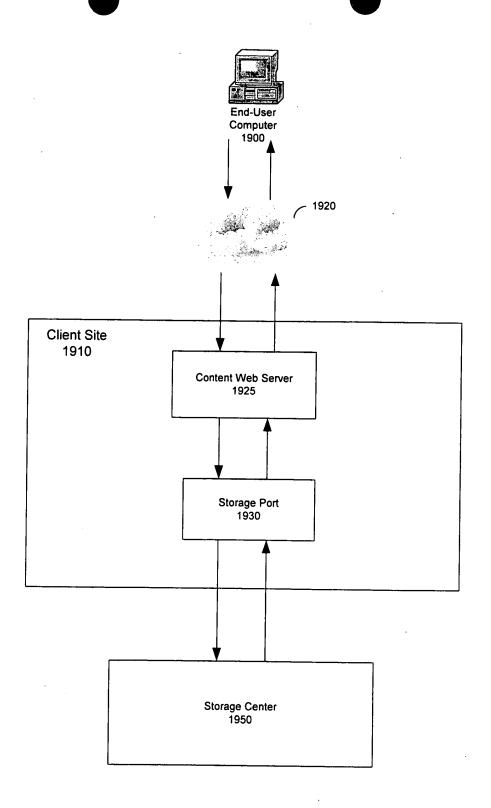


Figure 19

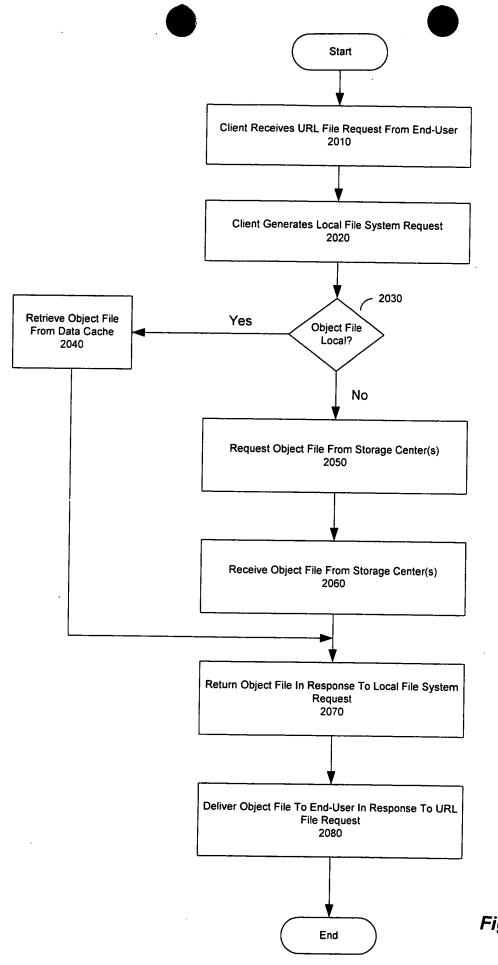


Figure 20

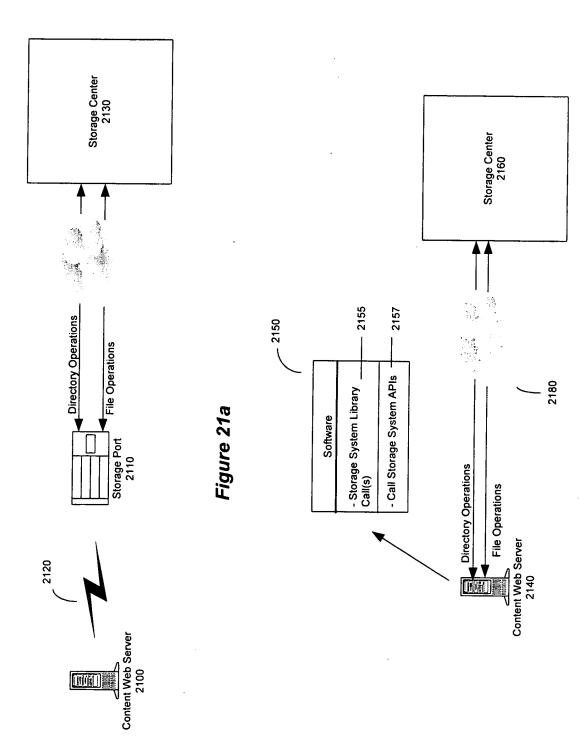


Figure 21b

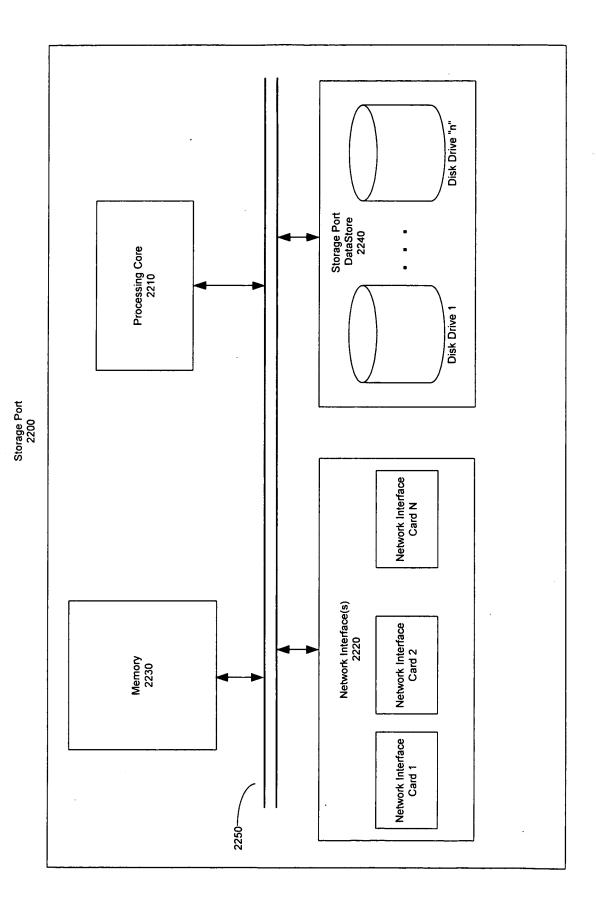


Figure 22

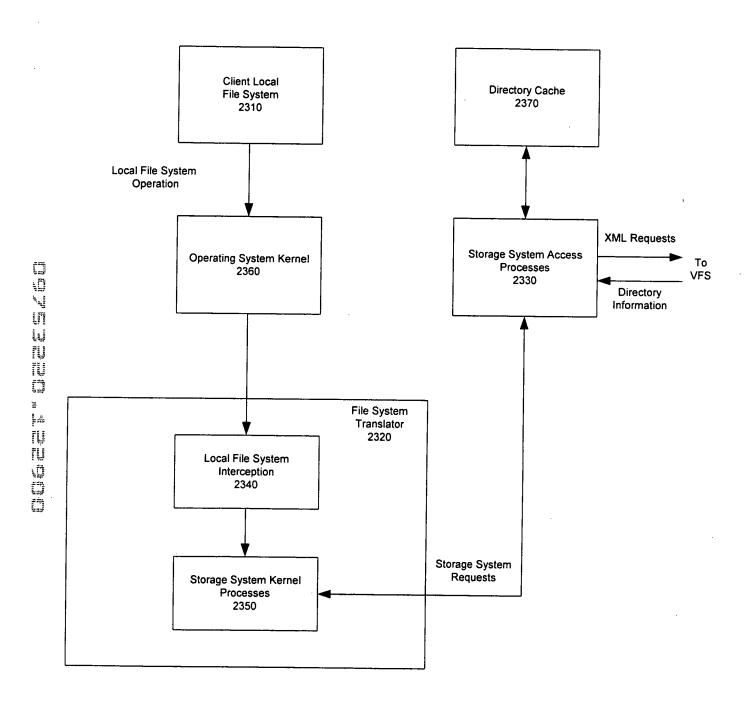
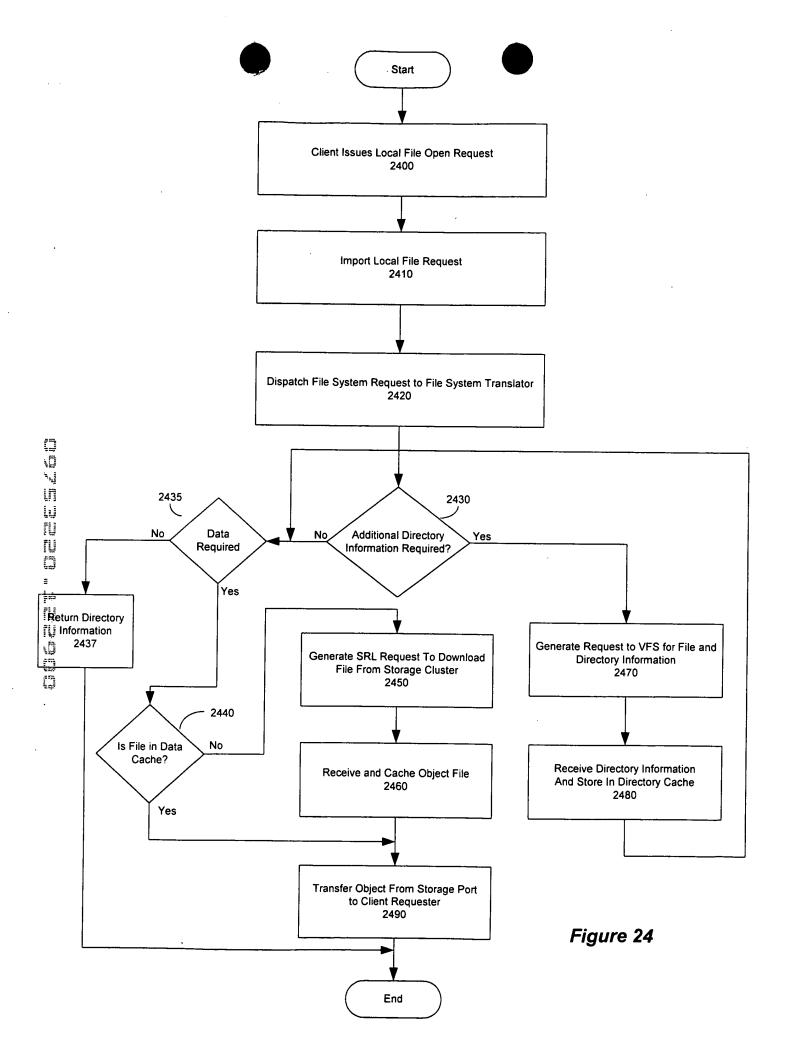


Figure 23



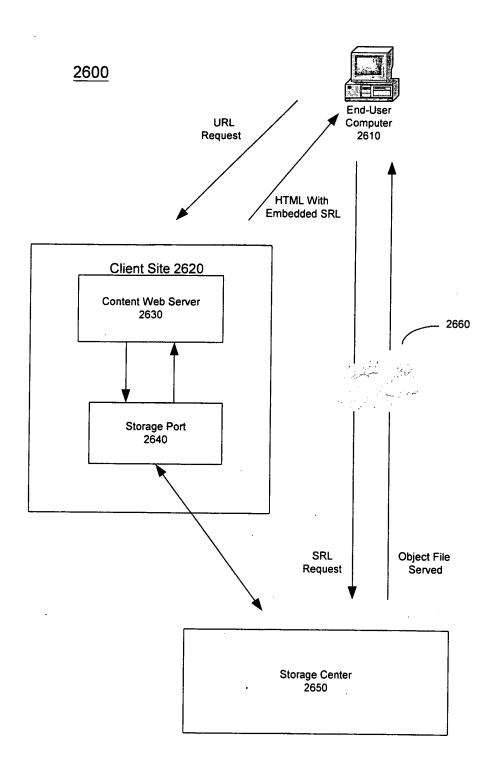
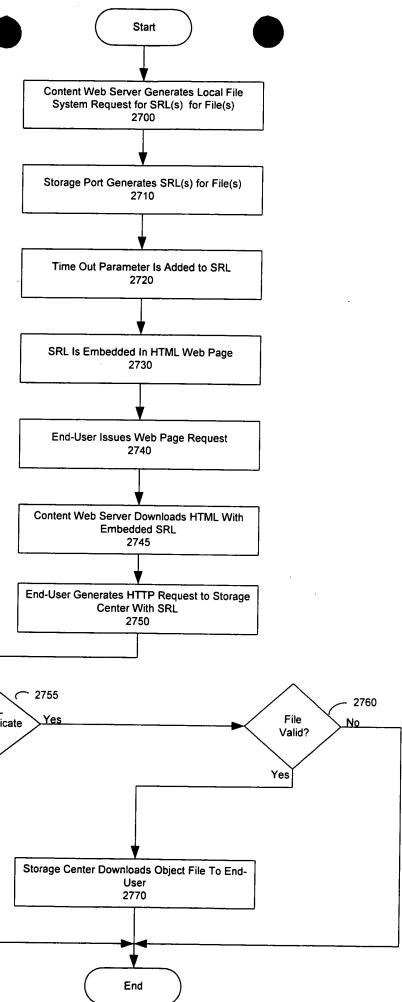


Figure 25



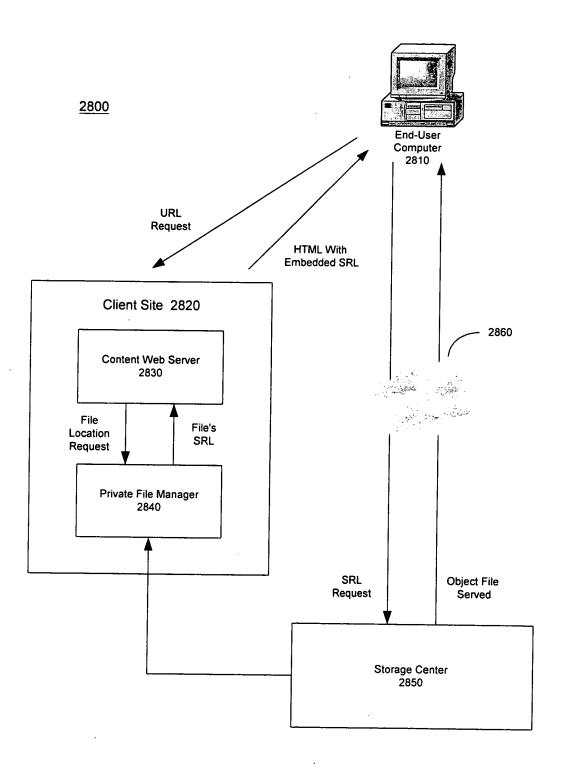


Figure 27

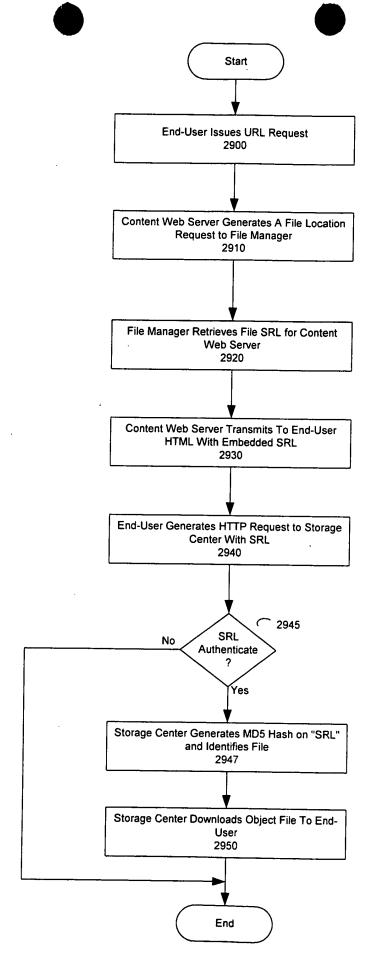


Figure 28

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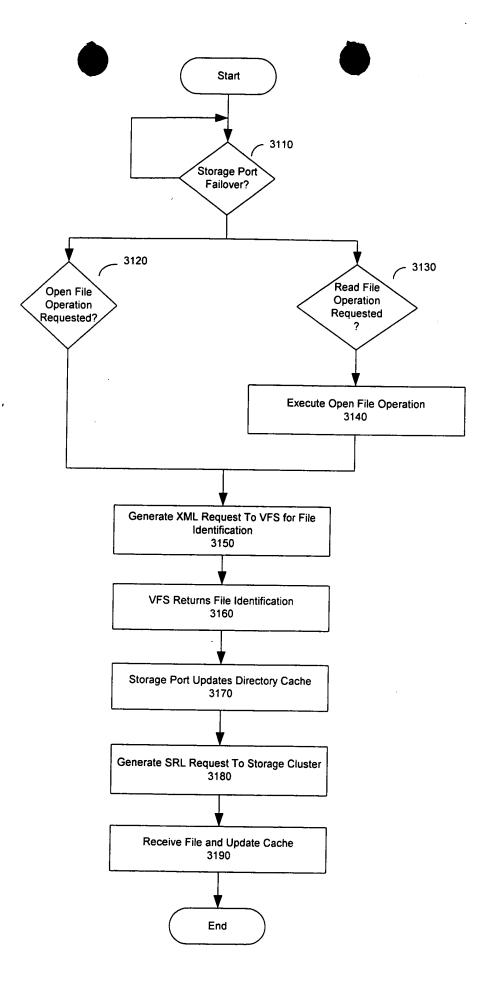


Figure 30

